

July 25, 2008

Dennis Gimmestad Minnesota Historical society 345 W. Kellogg Blvd. St. Paul, MN 55102-1906

Minnesota Steel Industries LLC Railline Transmittal of Reconnaissance Survey Results 44941

Dear Mr. Gimmestad:

Enclosed is a reconnaissance survey report conducted by Burns & McDonnell in October of 2007. The survey was conducted as part of a new rail line proposed by the Itasca County Regional Rail Authority (ICRRA) to serve new facilities proposed by Minnesota Steel Industries LLC. The survey is part of the STB's compliance with the Programmatic Agreement dated August 9, 2007. Since the survey, the proposed routing of the rail line has changed slightly to include a small portion of the Hill Annex Mine State Park. That change is documented in correspondence between the St. Paul District Corp of Engineers (COE), the STB and the Minnesota Historical Society. Because the change occurred after our reconnaissance survey and because of the existing documentation that change is not discussed in this report. However, the area of the change was very close to our survey line and we looked at this area during our reconnaissance and found no cultural resources.

No significant cultural resources were found during the reconnaissance survey and it is recommended that the project be allowed to proceed with a finding of no effect. If you have questions or require additional information please contact Dan Shinn at 816-803-8759 or e-mail at dshinn@burnsmcd.com.

Sincerely,

Steve Thornhill Project Manager

Cc:

File

St. Paul District Corps of Engineers Surface Transportation Board

Itasca County Regional Rail Authority

Reconnaissance Survey for the Itasca County Regional Rail Authority for the proposed Minnesota Steel Industries LLC., Rail Line

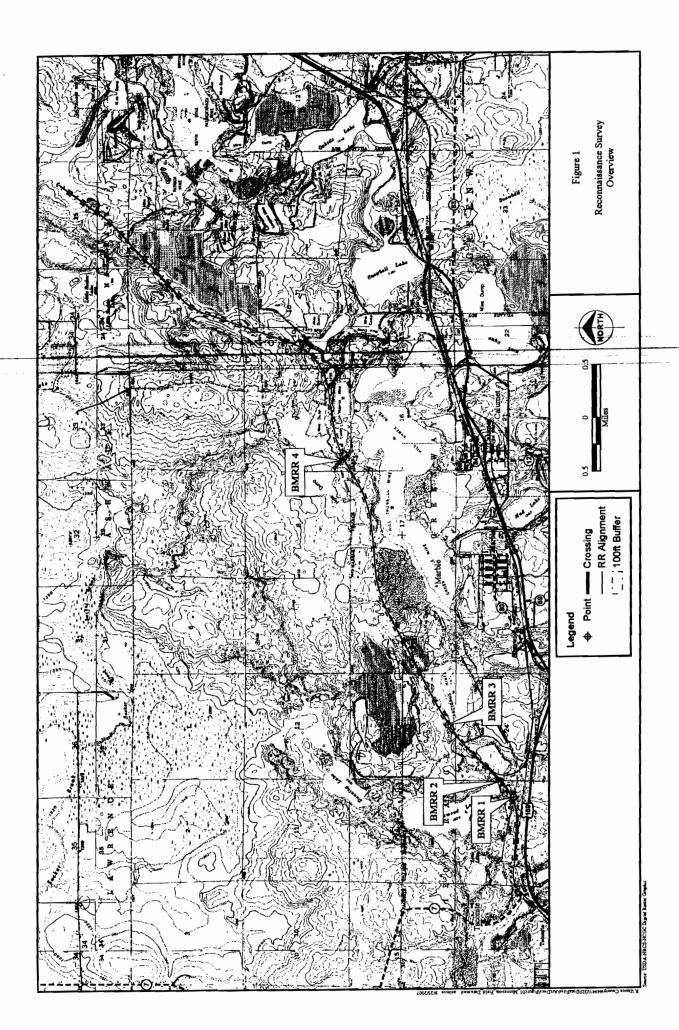
On October 9 and 10, 2007 a reconnaissance survey for cultural resources was conducted by Burns & McDonnell Engineering Company. Orval E. "Dan" Shinn served as the principal investigator, John Dunham provided navigation along with assisting in the survey, and Susan M. Houghton conducted the background investigation. The survey covered the selected alignment of the proposed rail line and is depicted in Figure 1. The only areas not surveyed were obvious mined areas and areas that were underwater.

Background Investigation

Prior to the field reconnaissance, Susan M. Houghton conducted background research at the Minnesota State Historic Preservation Office (SHPO), Minnesota Historical Society, St. Paul, Minnesota on August 7, 2007. The study area included portion of four USGS 7.5' topographic quadrangles. The quadrangles were Calumet, Bovey, Nashwauk, and Pengilly. No prehistoric sites are recorded within the boundaries of the project construction disturbance area. Two historic properties within the study area are listed on the National Register of Historic Places (NRHP) and one property is classified by the SHPO as eligible for listing or Considered Eligible Finding (CEF). Forty-eight properties are listed in the attached table provided by Tom Cinadr, the Minnesota SHPO Survey and Information Management Coordinator. In addition to the three properties above there are forty-five properties that while recorded have not been officially evaluated and therefore have an official status as unevaluated. None of the properties are within the proposed project area.

The two NRHP properties are the Hill Annex Mine State Park and the Oliver Iron Mining Company Buildings Boarding House on Jessie Street in Marble, Minnesota. The CEF property, is the Marble Village Hall on the southeast corner of Bawden Street and Alice Avenue in Marble, Minnesota.

Two reports have been completed that include portion of the study area. These reports are on file at the Minnesota SHPO. The NRHP Inventory-Nomination Form titled



Historic Resources of Itasca County (Partial Inventory), prepared by Mark E. Haidet in 1981 and the Cultural Resources Survey, Evaluation, and Effects Analysis Along Trunk highway 169, Itasca County, prepared by URS Corporation for the Minnesota Department of Transportation in 2003. Both reports list a portion of the forth-eight structures and bridges on the attached table (Table 1). The table information was provided by the Minnesota SHPO.

The proposed rail line is generally north of the previously surveyed areas and the proposed routes have been planned to avoid the State Park and communities in the area, including Marble, Calumet, Taconite, and Holman. No inventory is known to include structures in the area north of Highway 169 or outside the Hill Annex Mine State Park.

Survey Methods

The proposed right-of-way corridor for the rail line is approximately 200 feet wide. Because the area has been heavily used for mining, it was not expected that a full Phase I archaeological survey was warranted. Therefore, this survey was conducted as a reconnaissance survey to determine if there were cultural resources present and to determine the extent of the disturbance caused by mining activities.

The survey was conducted on foot starting where the proposed rail line corridor departs the existing rail line. Because of the dense cover and the sparse markings showing the extent of the right-of-way, a Trimble sub-meter accurate Global Positioning System (GPS) was used to ensure that the proposed 200 foot wide right-of-way was inspected. The GPS was also used to plot any finds during the survey. The survey proceeded from the west end to the northeast ending at the rail line terminus (Figure 1). The survey was conducted by observing the terrain to determine if it had been previously disturbed by open pit mining or if the terrain was intact. No entirely intact areas were observed. There did appear to be two small pockets of relatively undisturbed area at the southwest end of the line and near the northwest end of the line. However, even these areas have been heavily disturbed by timber harvesting. Geomorphologically, the entire area appears to consist of glacial gravels which normally means there is little or no chance of

Table 1-Structures and Bridges

History/Architecture

	Report NRHP CEF DOE Inventory Number		-1H IC-CAC-001	-1H IC-CAC-002	-1H IC-CAC-003	-1H IC-CAC-004	-1H IC-CAC-005	-IH IC-CAC-006	IC-CAC-007		IC-GRW-004		-1H IC-GRN-001	-1H Y IC-GRN-002	IC-GRW-003		IC-2003-1H IC-HOL-001	IC-2003-1H IC-HOL-002	ic-2003-1h IC-HOL-003	IC-2003-1H IC-HOL-004
ادون		g or	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H					IC-81-1H	IC-81-1H		***	IC-20	IC-20	ic-20	IC-20
	nses		Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	r sak keer iii		 	Calumet	Calumet	Calumet	 	Calumet	Calumet	Calumet	Calumet
	Sec Quarters		21 SW-NW-NW	21 SW-NW-NW	21 SW-NW-NW	21 SE-NW-NW	21 SE-NW-NW	21 NE-SW-NW	21 SW-NW-NW		15		21 N-NW-NE	91	15		27 SW-NW-NE	27 SW-NW-NE	27 NW-NW-NE	27 NW-NW-NE
	Range		23	23	23	23	23	23	23		23		23	23	23		24	24	24	24
	Twp		99	26	26	26	26	26	99		99		26	26	99		26	26	99	26
	ADDRESS		SW corner 3rd Ave. & Gary St.	NE corner Gary St. & 3rd Ave.	xxx Gary St.	xxx 4th Ave.	xxx Morgan St.	xxx 6th Ave.	CSAH 84 under BN Inc		TH 169 crossing under BN RR	Ψ.	off U.S. Hwy. 169		carries abandoned RR tracks of USTH 169 1 M E. of Calumet and Marble		211 Guyer St. S	209 Guyer St. S	xxx Lawson Ave.	304-306 Lawson Ave.
	PROPERTY NAME	COUNTY Itasca CITY/TOWNSHIP: Calumet	Calumet State Bank	Calumet Village Hall	Calumet Variety Store (moved)	Calumet-Marble Train Depot	Calumet Watertower	Calumet Community Church	Bridge No. L1008	CITY/TOWNSHIP: Green Way	Bridge No. 5332	CITY/TOWNSHIP: Greenway Twp.	Railroad Bridge	Hill Annex Mine	Bridge No. 5342	CITY/TOWNSHIP: Holman	house	house	house	house

Friday, July 27, 2007

PROPERTY NAME	ADDRESS	Twp Range	e Sec Quarters	nsgs		Report	NRHP CEF DOE	Inventory Number
COUNTY Itasca				**				, '
CITY/TOWNSHIP: Holman								
house	307 Lawson Ave.	56 24	4 27 NE-NW-NE	Calumet		IC-2003-1H		IC-HOL-005
house	311 Lawson Ave.	56 24	4 27 NE-NW-NE	Calumet		IC-2003-1H		IC-HOL-006
house	210 Guyer St. S	56 24	4 27 SE-NW-NE	Calumet		IC-2003-1H		IC-HOL-007
house	212 Guyer St. S	56 24	4 27 SW-NW-NE	Calumet		IC-2003-1H		IC-HOL-008
CITY/TOWNSHIP: Iron Range Township	ownship			a comprised As				
DM&N Canisteo Mine High Grade Ore Line		56 24	4 27	Calumet		IC-2003-1H		IC-1RT-004
Holman Mine Line to the Trout Lake Washing Plant		56 24	4 22	Calumet		IC-2003-1H		IC-IRT-008
Holman Mine Line to the Trout Lake Washing Plant		56 24	4 27	Calumet		IC-2003-1H		IC-IRT-008
Great Northern Railway Nashwauk-Gunn Line		56 24	4 22	Calumet	,	IC-2003-1H		IC-IRT-009
Great Northern Railway Nashwauk-Gunn Line		56 24	4 27	Calumet		IC-2003-1H		IC-IRT-009
Duluth, Missabe & Northern Railway Alborn Branch Line		56 24	4 22	Calumet		IC-2003-1H		IC-IRT-010
Duluth, Missabe & Northern Railway Alborn Branch Line		56 24	4 23	Calumet		IC-2003-1H		IC-IRT-010
Duluth, Missabe & Northern Railway Alborn Branch Line		56 24	4 27	Calumet		IC-2003-1H		IC-IRT-010
Mesaba-Cliffs Tailings Basin		56 24	4 27	Calumet		IC-2003-1H		IC-IRT-011
Holman Mine Stripping and Lean Ore Dump		56 24	4 22	Calumet		IC-2003-1H		IC-IRT-012
Holman Mine Stripping and Lean Ore Dump		56 24	4 27	Bovey	1 .	IC-2003-1H		IC-IRT-012
Brown No. 2 Mine Stripping Dump		56 24	4 22	Calumet	··	IC-2003-1H		IC-IRT-013
Brown No. 2 Mine Stripping Dump		56 24	4 22	Bovey		IC-2003-1H		IC-IRT-013
Rhude Media Palnt	xxxx TH 169	56 24	4 23 NE-NW-SW	Bovey		IC-2003-1H		IC-IRT-016

Friday, July 27, 2007

NRHP CEF DOE Inventory Number		IC-IRT-017		ST-DI	IC-IRT-021	IC-IRT-021		IC.MRC.001	COC-DEN-DI	Y IC-MBC-003	IC-MRC 100	C-MBC-005	7 - 200 - 20		C-WBC-008	600-D8M-DI	IC-MBC-010	I I O DAW-OI	IC-MBC-012		IC-TCC-001	Page 3 of
Report		IC-2003-1H		IC-2003-1H	IC-2003-1H	IC-2003-1H		IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H	IC-81-1H				IC-81-1H	
nses		Bovey		Bovey	Bovey	Bovey		Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	Calumet	 	Bovey	
Range · Sec Quarters		23 SW-NE-SW		23 SW-NE-SW	22	27		20 SE-SW-NW	20 NE-SW-NW	19 NE-SE-NE	19 SE-SE-NE	19 NE-SE-NE	20 SW-SW-NW	20 NW-SE-NE	20 NE-SW-NW	20 NW-SW-NW	20 SE-SE-NW	20 NE-SW-NW	19 SW-NE-SW		22 SW-SW-SW	
Range		24		24	24	24		23	23	23	23	23	23	23	23	23	23	23	23		54	
Twp		99		56	56	99		56	56	99	56	56	56	56	56	99	56	56	56		96	
ADDRESS	wnship	6670 US 169	ė	6708 US 169				SW comer Ethel St. & Alice Ave.	xxx Ethel St.	xxx Jessie St.	xxx Bawden St.	xxx Jessie St.	SE corner Bawden St. & Alice Ave.	off Harriet St.	xxx Alice Ave.	NE comer Alice Ave. & Kate St.	off U.S. Hwy. 169	xxx Ethel St.	CSAH 80 under BN Inc		xxx Broadway	
PROPERTY NAME	COUNTY Itasca CITY/TOWNSHIP: Iron Range Township	house	CITY/TOWNSHIP: Iron Range Twp.	house	Taconite and Holman Mine Spur	Taconite and Holman Mine Spur	CITY/TOWNSHIP: Marble	United Methodist Church	Marble Hospital	Oliver Iron Mining Company Buildings Boarding House	Henry Bolthouse House	Worker's House	Marble Village Hall	Marble Water Tower	commercial building	First National Bank of Marble	Burlington Northern Wooden Trestle Bridge No. 16.6	Marble Hospital	Bridge No. 90748	CITY/TOWNSHIP: Taconite	Oliver Mining Company Housing	Friday, July 27, 2007

Renort NPUP CEF DOF 1				IC-81-1H IC-1CC-002	IC-81-1H IC-TCC-003	IC-81-1H	- ,	IC-1CC-003
nsgs			Rovey		Bovey	Bovey	Calumet	Calumet
Range Sec Quarters			22 SW-SW-SW		WS-WS-WS 22	27 NW-NW-N	22 SE-NE-SE	27 NW-NW-SW Calumet
Range			24		47	24	24	24
Twp			56	73	2	26	26	26
ADDRESS			xxx Broadway	xxx Kreitter Ave.		NE comer Broadway Ave. & Leroy Ave.	CSAH 7 under BN Inc	xxx Kreiter Ave.
PROPERTY NAME	COUNTY	CITY/TOWNSHIP: Taconite	Bank Building	Taconite Watertower	Teconite Willers Hell	raconite vinage nail	Bridge No. L3811	Taconite Junction

100		
	<u>:</u>	

23 24

26

MUN 3 over Holman Lake Creek

CITY/TOWNSHIP: Taconite City

Bridge No. 3363

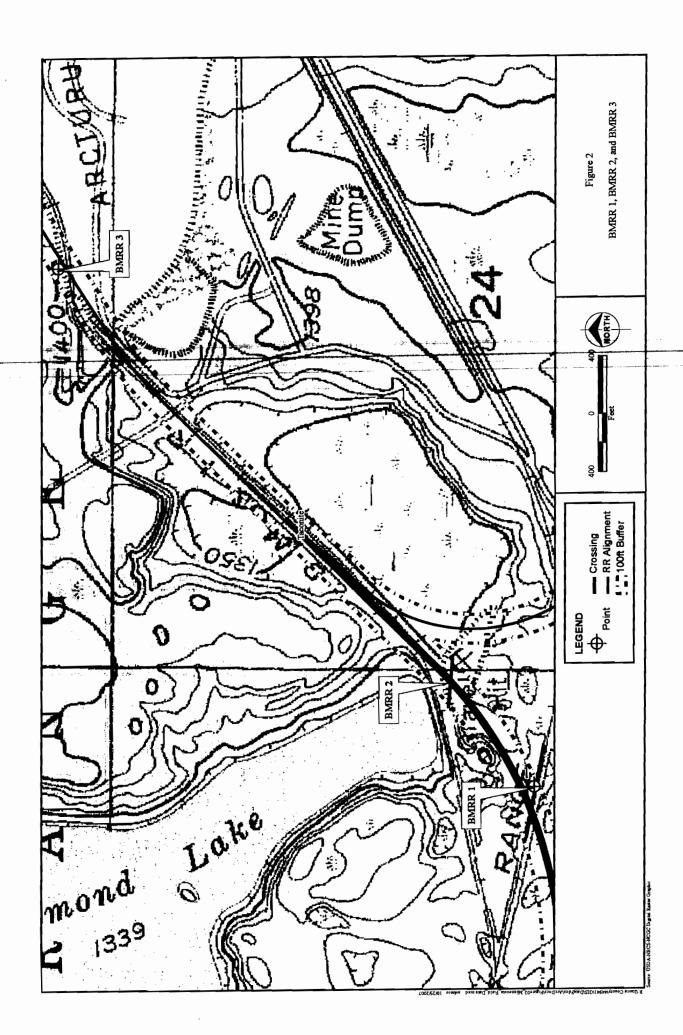
IC-TCC-006

buried cultural resources. With this knowledge in hand it is further surmised that any activity that disturbed the surface would destroy the context of any cultural activity. None of the corridor appears to contain developed soils that would be suitable for the discovery of buried archaeological sites.

The conditions during the survey were mostly cloudy, scattered rain showers, some small snow flakes and very windy. It was cloudy during the entire survey. Because of the wet conditions standing water was present and many of the low lying areas had to be skirted. Using the GPS for navigation proved invaluable for being able to return to the proposed right-of-way after skirting wetlands and mine pits that were filled with water.

Results

Other than modern debris consisting of aluminum cans, plastic, modern bottle sherds, and modern deer hunting stands only four cultural resources were observed. The four cultural resources consisted of three abandoned rail lines and four concrete pillars (Figures 2 and 3). The corridor crosses the abandoned rail lines at approximately a ninety degree angle (Photo 1,2, and 3). The only remnants are the rail berm and some of the ties. All of the steel to include the rails, spikes, and rail plates, had been salvaged and were likely reused. One of the rail lines did not appear to be of standard width, but the lack of intact ties (all were rotten) made it difficult to determine the exact width of the rails. What is known is that the ties on this one rail line (BM-01) appeared to be only 5 feet long which would indicate that this rail line may have been narrow gage. In many instances across the country narrow gage rail lines were the rail line of choice for temporary use such as those used by the mining industry. The other two abandoned rail lines appeared to be standard gage. Further research on-line at http://www.missabe.com/oliver.html confirmed that narrow gage rail lines were used in the very early years of strip mining on the Mesabe Range but the economics of shipping ore quickly forced the mines to convert to standard rail.



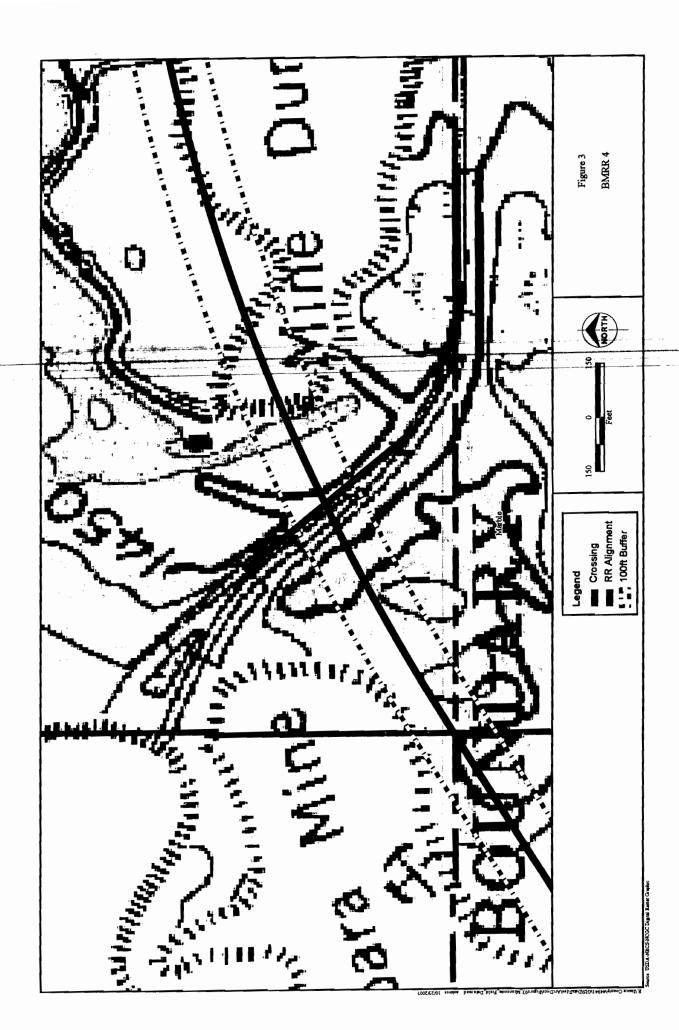




Photo 1—Rail berm looking west



Photo 2—Rail berm looking east

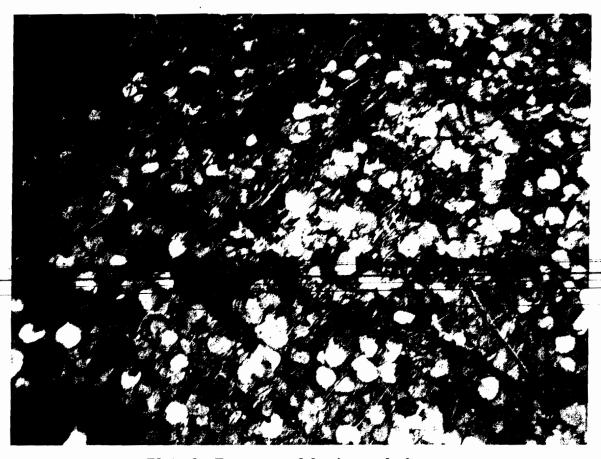


Photo 3—Remnants of the ties on the berms.

The four concrete pillars may be the base of a water tower. The pillars did not appear to be substantial enough to be bridge supports (Photo 4). The photo shows two of the pillars one exposed one partially exposed and the other two only had the tops exposed. The pillars were located near a road that may have been an abandoned rail line and the road and pillars were near a drop off of approximately 100 feet into an abandoned strip mine. While this evidence seems to indicate that the road may have been an abandoned rail line, no artifacts other than the concrete pillars were found to support the theory. However, the best interpretation for the existence of the four pillars is that they were the supports for a water tower for a water stop for steam powered locomotives servicing the mines.



Photo 4—One of the possible water tower concrete bases.

Conclusions and Recommendations

It would appear that the selected route for the proposed project has been heavily disturbed by either mining or logging activities. There were many opportunities to observe the surface on roads, tree tip-ups and in eroded areas. It is unlikely that any prehistoric cultural resources are intact and none were observed during the reconnaissance survey. Four historic resources were observed but it is the opinion of the investigator that while these resources will be impacted by the new project, they are not significant. All of the mines in the Mesabe Range used temporary rail lines to transport the ore and all of the mines used steam power well into the 1950s. Many more examples and many better examples exist as evidenced by the nearby Hill Annex Mine. It is therefore recommended that the project be allowed to proceed without any further archaeological investigations.